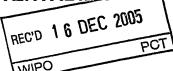
PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)



'Applicant's or agent's file reference XA 1875		FOR FURTHER AC	TION	See Form PCT/IPEA/416		
International application No. PCT/GB2004/004842		nternational filing date <i>(a</i> 16.11.2004	lay/month/year)	Priority date (day/month/year) 20.11.2003		
International Patent Classification (IPC) or national classification and IPC G01S17/89						
Applicant MBDA UK LIMITED et al.						
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of 5 sheets, including this cover sheet.						
3. This report is also	3. This report is also accompanied by ANNEXES, comprising:					
a. sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
☐ Box No. I Basis of the opinion		on				
☐ Box No. II	Priority					
☐ Box No. III	Non-establishmer	nt of opinion with rega	rd to novelty, inventive	step and industrial applicability		
☐ Box No. IV	Lack of unity of in	vention				
Box No. VI	Certain document					
I		the international appl				
☐ Box No. VIII	Box No. VIII Certain observations on the international application					
Date of submission of the demand		Date of completion of the	s report			
24.08.2005		15.12.2005				
Name and mailing address of the international		Authorized Officer	nes Polezon.			
preliminary examining authority: European Patent Office - P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016		Quertemont, E				
		Telephone No. +31 70 3	40-3078			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/004842

	Box N	o. I Basis of the report			
1.	With regard to the language , this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.				
	wl	nis report is based on translations from the original language into the following language , hich is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)			
2.	. With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
	Description, Pages				
	1-5	as originally filed			
	Claims, Numbers				
	1-9	as originally filed			
	Drawings, Sheets				
	1	as originally filed			
	□ а	sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing			
3.		he amendments have resulted in the cancellation of: the description, pages the claims, Nos. 9 the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):			
4.	had n Suppl E	his report has been established as if (some of) the amendments annexed to this report and listed below of been made, since they have been considered to go beyond the disclosure as filed, as indicated in the emental Box (Rule 70.2(c)). I the description, pages I the claims, Nos. I the drawings, sheets/figs I the sequence listing (specify): I any table(s) related to sequence listing (specify):			
		files 4 applies game on all of these shoots may be marked "supergoded"			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/004842

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-8

1-8

Inventive step (IS)

Industrial applicability (IA).

Yes: Claims

No: Claims

140. Oldiiiio

Yes: Claims 1-8

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D1: EP-A-1154639

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.
- 2.2 The document D1 discloses (figures 8 and 9; the references in parentheses applying to this document) a signal processing system (see paragraphs [0009] and [0010]) having at least two independent processing channels (each of the pixels of the image are treated individually by an independent processing channel), a plurality of optical fibres with their one ends (24) oriented to receive electromagnetic radiation, and couplers (see figure 10 for example) interconnecting the other ends (on the detectors side) of the optical fibres in parallel such that electromagnetic radiation transmitted by the optical fibres will be coupled together (on detector 6) and then directed into each of the independent processing channels.

The signal processing system of D1 outputs the time-ordered pulses from the detector 6 and outputs the signal to a signal adressing logic to be individually recognized and processed to create an image. The signal processing of D1 therefore comprises independent processing channel.

- 2.3 The subject-matter of claim 1 is therefore not new (Article 33(2) PCT).
- 3.1 The additional features of claims 2-8 are also disclosed in document D1. In particular, document D1 (figure 9 and paragraph [0031]) discloses an independent processing channel including a processing board (9) with an output to a signal detector (6). The at least one of the independent processing channels are arranged to transmit the electromagnetic radiation in sequence to a signal detector input (6).

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Another independent processing channel (7) is arranged to transmit the electronic radiation in sequence to another signal detector input (7), the independent processing channels incorporate different optical delays to minimise any range/position ambiguity (see paragraph [0030]).

3.2 Hence the subject-matter of claims 2-8 lacks novelty (Article 33(2) PCT).